

PATENT COOPERATION TREATY
PCT
INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ADD:slm	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/AU2004/001474	International filing date (<i>day/month/year</i>) 28 October 2004	(Earliest) Priority Date (<i>day/month/year</i>) 28 October 2003
Applicant KANEFF, Stephen		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II).

3. ☒ Unity of invention is lacking (See Box No. III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims 1-13 relate to apparatus for effecting controlled rotation or linear movement of a body wherein said apparatus comprises an actuator clamp that is releasably clampable on to a ring member or a linear member of the body, and an expansion and contraction device connected at one end to the clamp and at the other end via a rigid arm to the body, such that controlled movement is obtained by the expansion and contraction of the device regulated by the action of the clamp. It is considered that this comprises a first "special technical feature".

2. Claims 14 and 15 relate to a clamp per se, for use with an I-beam having a centrally positioned vertical member separating an upper horizontal flange and a lower horizontal flange (claim 14), or for use with a wall having a side face and a top face (claim 15). The clamp, per se, is considered to comprise a second separate "special technical feature".

Since the abovementioned groups of claims do not share either of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Box No. IV Text of the Abstract (Continuation of Item 5 of the first sheet)

Apparatus for the rotation of a large body, such as the base frame (11) of a solar energy collector having a large reflective dish (10), about an axis (12) utilises a ring member or arcuate member (16). An actuator clamp (18) can be moved along the ring or arcuate member when it is not clamped to it. The actuator clamp is connected to one end of an expansion and contraction device, such as a hydraulic ram (17). The other end of the ram is connected to the body or to a rigid arm (15) that is securely connected to the body. With the actuator clamp firmly clamped to the ring or arcuate member, the expansion or contraction of the ram causes the body to rotate about the axis. At least one auxiliary clamp (20, 22) may be provided which may be used to continue the movement of the body while the position of the actuator clamp on the ring or arcuate member is changed.

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A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ³: H01Q 1/12, F15B 15/02, 15/06, B25B 5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT, Espacenet, USPTO: rotate, adjust, control, position, hydraulic, telescopic, clamp and similar terms

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Derwent Abstract Accession No. 89-219039/30, Class Q35, SU 1435515 A (URALS FORESTRY INST) 7 November 1988 abstract	1-4, 6
X	US 2003/0122728 A1 (ANTOINE) 3 July 2003 whole document	7, 8, 10
Y		9, 11-15
X	CA 2070929 A1 (GEARHART) 11 December 1993 whole document	7, 8, 10
Y		9, 11-15
Y	US 3840095 A (MATSON) 8 October 1974 whole document	14, 15
Y	US 6443287 B2 (BJØRKGÅRD) 3 September 2002 whole document	14, 15



Further documents are listed in the continuation of Box C



See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

11 January 2005

Date of mailing of the international search report

18 JAN 2005

Name and mailing address of the ISA/AU

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Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
SU	1435515	NONE					
US	2003/0122728	US	6727861				
CA	2070929	NONE					
US	3840095	AU	73984/74	CA	1006216	DE	2438666
		DE	2446183	ES	430744	FR	2247811
		FR	2260744	GB	1481086	JP	50110411
		JP	50113119	NL	7313905	US	3913043
US	6443287	NO	985107	US	2002/000356	WO	00/26555
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							